

**SANITATION DISTRICTS OF LOS ANGELES COUNTY**



# **Pilot Food Waste Program**

**Los Angeles County  
Department of Public Works  
&  
Sanitation Districts**

**May 2017**





# Overview

- LA County Waste Collection System
  - Residential Franchise (RF)
  - Commercial Franchise (CF)
  - Garbage Disposal Districts (GDD)
  - Open Market
- Food Waste Diversion Pilots
  - GDDs
  - CF
- Food Waste Processing



# LA County Waste Collection System

- Unincorporated County Areas
  - 1.1 million residents
  - Over 20,000 businesses
  - Over 100 communities
  - Well over 12,000 commercial accounts in CF and GDDs
  - 21 RFs
  - 39 CF waste haulers



# Garbage Disposal Districts Food Waste Pilot Program

## Program Overview

- October 2015 – November 2016
- Republic Services, GDD hauler
- Belvedere and Firestone GDDs
  - Belvedere GDD: 23 businesses
  - Firestone GDD: 32 businesses
- Total collected: 246.86 tons



### Food Waste Recycling GUIDE

YES <i>¡Recicle por favor!</i>	NO <i>¡No aceptable!</i>
Fruits <i>Frutas</i>	NO Garbage <i>NO Basura</i>
Vegetables <i>Verduras</i>	NO Plastic Bags & Film <i>NO Bolsa de Plastico y Plastico para Empaque</i>
Pastas, Grains, Rice & Beans <i>Pastas, Granos, Arroz y Frijoles</i>	NO Cans <i>NO Todas las Latas</i>
Meat, Poultry, Seafood & Shellfish <i>Carnes, Pollo, Mariscos, y Crustaceos</i>	NO Oil & Grease <i>NO Aceite y Grasas</i>
Bones & Eggs <i>Huesos, Huevos y Cascaron de Huevos</i>	NO Glass <i>NO Vidrio</i>
Bread, Cheese & Pastries <i>Panes, Quesos y Pasteles</i>	NO Packaging & Cardboard <i>NO Cajas de Comestibles y Cartones</i>
	NO Paper or Biodegradable Plates, Cups & Utensils <i>NO Utensilos, Platos y Basos Biodegradables o de Papel</i>



**Questions?**  
(800) 299-4898  
contactus@reprsv.com

 **REPUBLIC SERVICES**



# Commercial Franchise Food Waste Collection Pilot

## Program Overview

- 1 year program
- Commercial Franchise waste haulers
- Puente Hills MRF
- Gate Fee: \$85 per ton of food waste
- Pilot Program Rebate: \$50 per ton credit  
(applied to Franchise Fee Payments)
- No net increase cost to customers
- Contamination level must not exceed LACSD limits





# Pre-Implementation



## DEPARTMENT OF PUBLIC WORKS

900 SOUTH FREMONT AVENUE  
ALHAMBRA, CALIFORNIA 91803-1331  
Telephone: (626) 458-5100  
<http://dpw.lacounty.gov>

IN REPLY PLEASE  
REFER TO FILE: EP-7

Dear Customer/Business Owner,

As of **April 2016**, it is mandatory for businesses, which meet the minimum waste generation threshold (see below) to subscribe for food waste collection services. *We encourage you to take advantage of this **free service** while this 12-month pilot program lasts.*

Beginning April 1, 2016, the State's **Mandatory Organic Waste Recycling Law (AB 1826)** phased in requirements for businesses and multifamily residences that generate specified amounts of organic waste to arrange for recycling services for that material in accordance with the following schedule:

### How to Arrange for Recycling Services

In order to assist businesses in complying with Statewide organic waste management diversion requirements under AB 1826, Public Works and participating haulers have

## Implementation Tasks

### Supplies & Equipment

### Training & Marketing

### Roll-Out

### Equipment Placement

Other

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# Commercial Franchise Food Waste Collection Pilot

## Program Overview

- Program began in July 2016
- 3 haulers executed agreement;  
1 actively participating
- Total collected to date:  
402.83 tons





# Success/Lessons Learned

## Keys to success:

- Education and training
  - Graphics-heavy approach
- Retraining
- Paying attention to the specific collection and equipment needs of the customer
  - Increasing frequency of collection to combat odor
  - Locks
  - Fluctuation in generation during holidays





# **Next Steps for Commercial Franchise Food Waste Collection Pilot**

For consideration:

- Program extension
- Increasing hauler participation
- Revising Franchise Fee Credit incentive
- Increased outreach from County



# Sanitation Districts Pilot Programs

- Joint Water Pollution Control Plant (JWPCP)
  - Waste Management, Inc.
  - Insinkerator
- Puente Hills Materials Recovery Facility (MRF)
  - Los Angeles County Department of Public Works
  - Private waste haulers





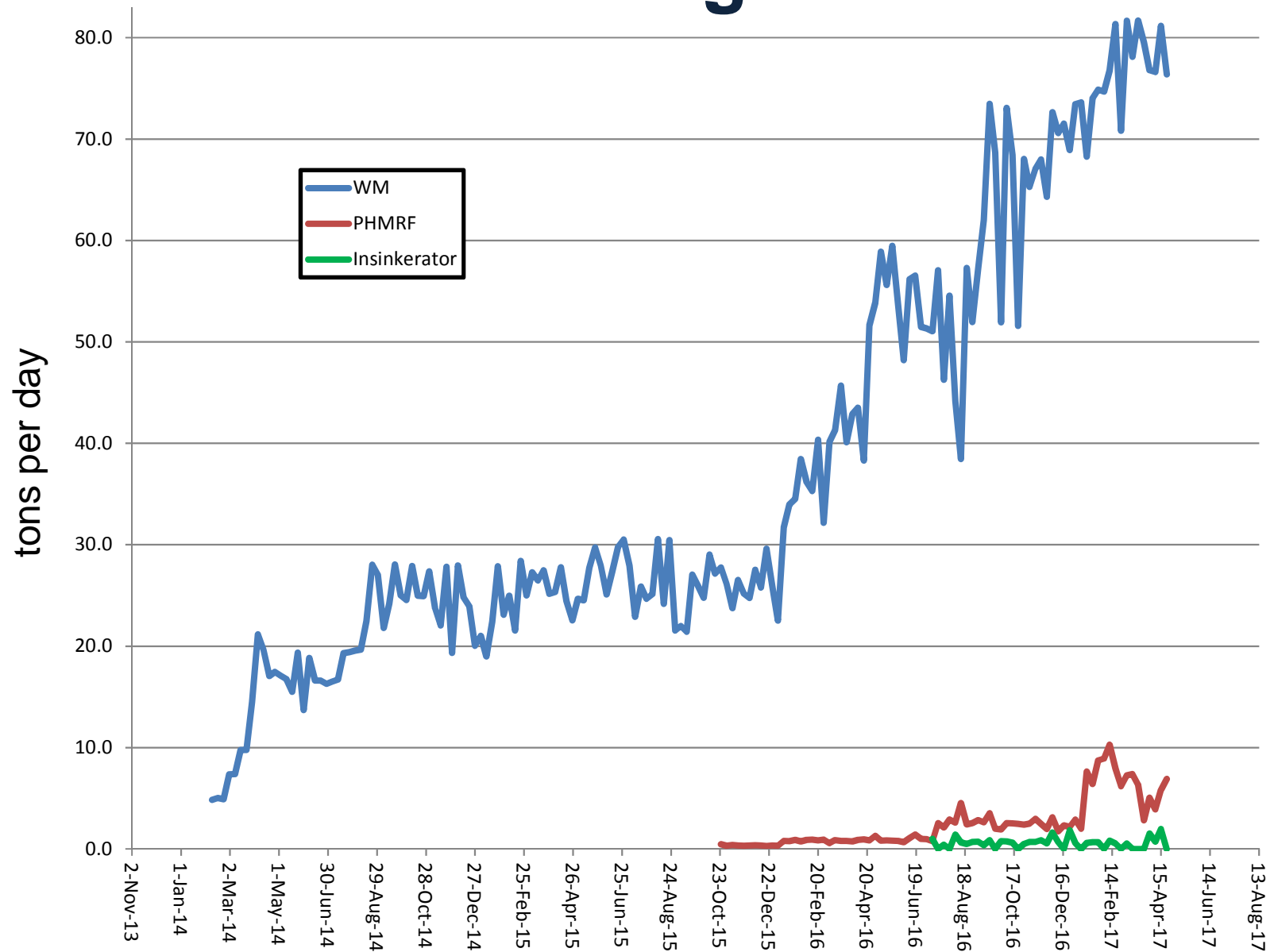
# Food Waste Receiving & Processing





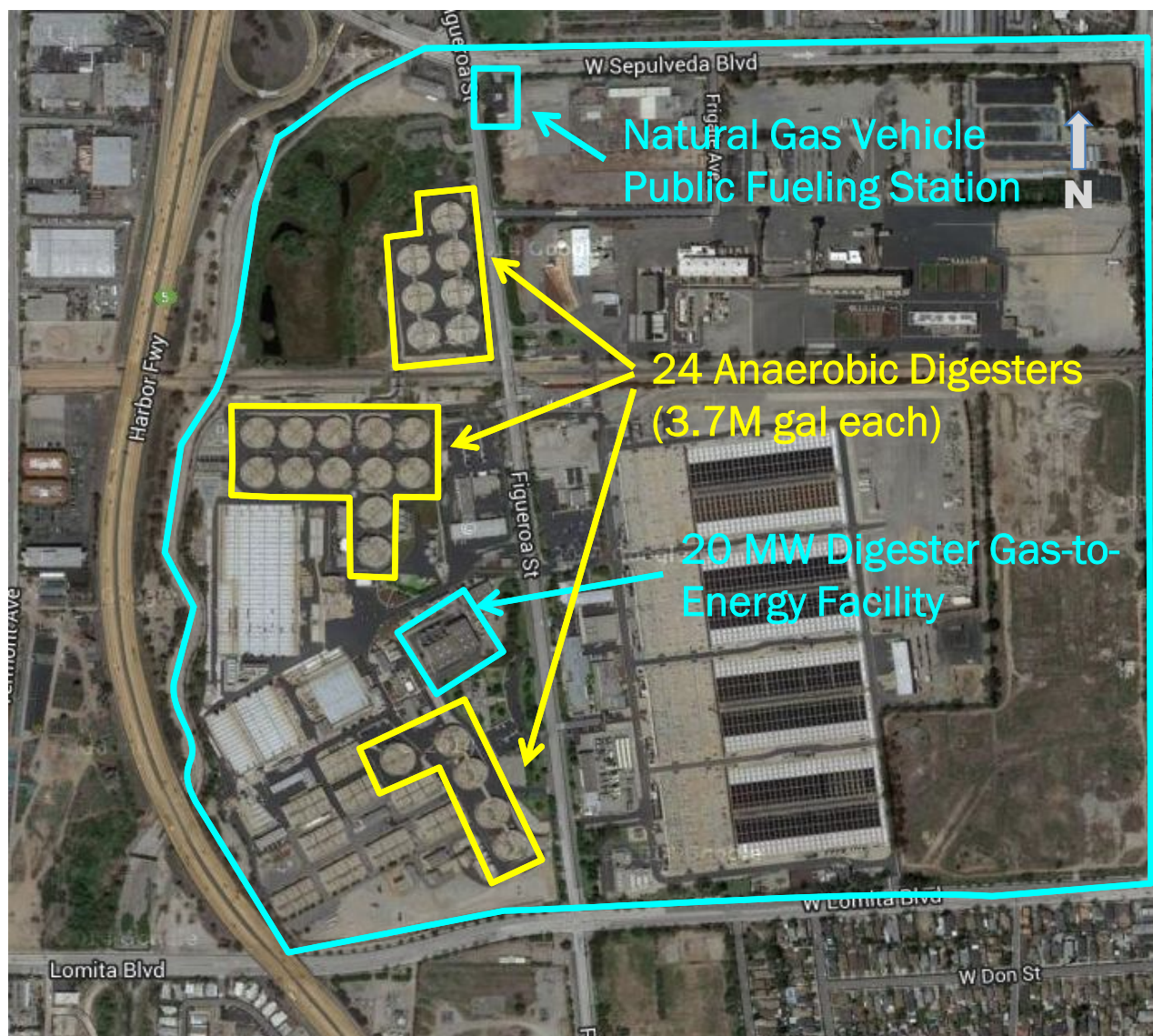


# Food Waste Tons to Pilot Programs





# Joint Water Pollution Control Plant in Carson







# Tanker Truck Unloading Station

Food waste is pumped from tanker trucks into closed, sealed storage tanks, controlling odors.

Two identical receiving/in-feed stations for redundancy.





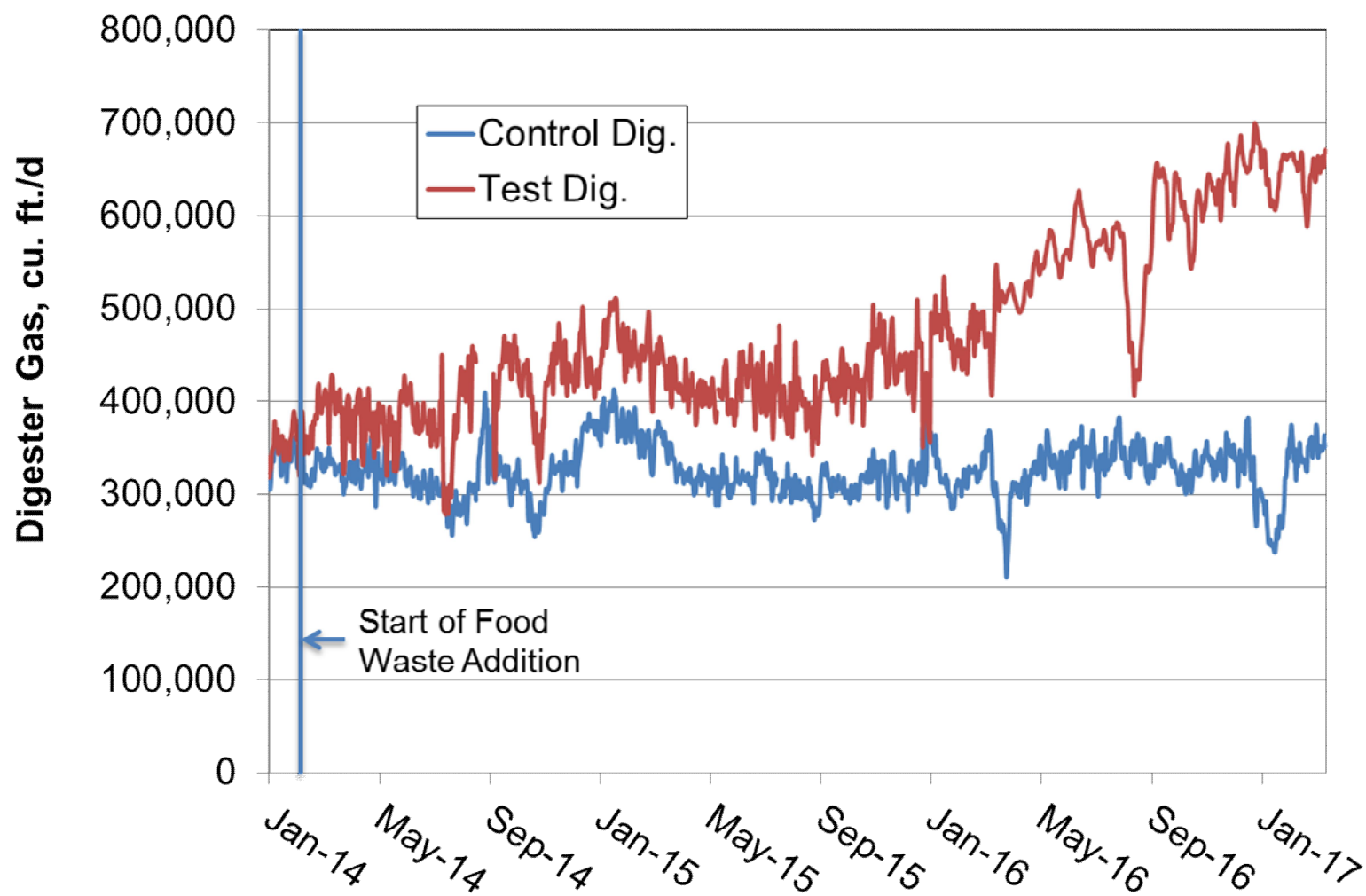
# Food Waste Pumped Into Treatment Plant Digester

Slurry is pumped into a 3.7 million gallon digester





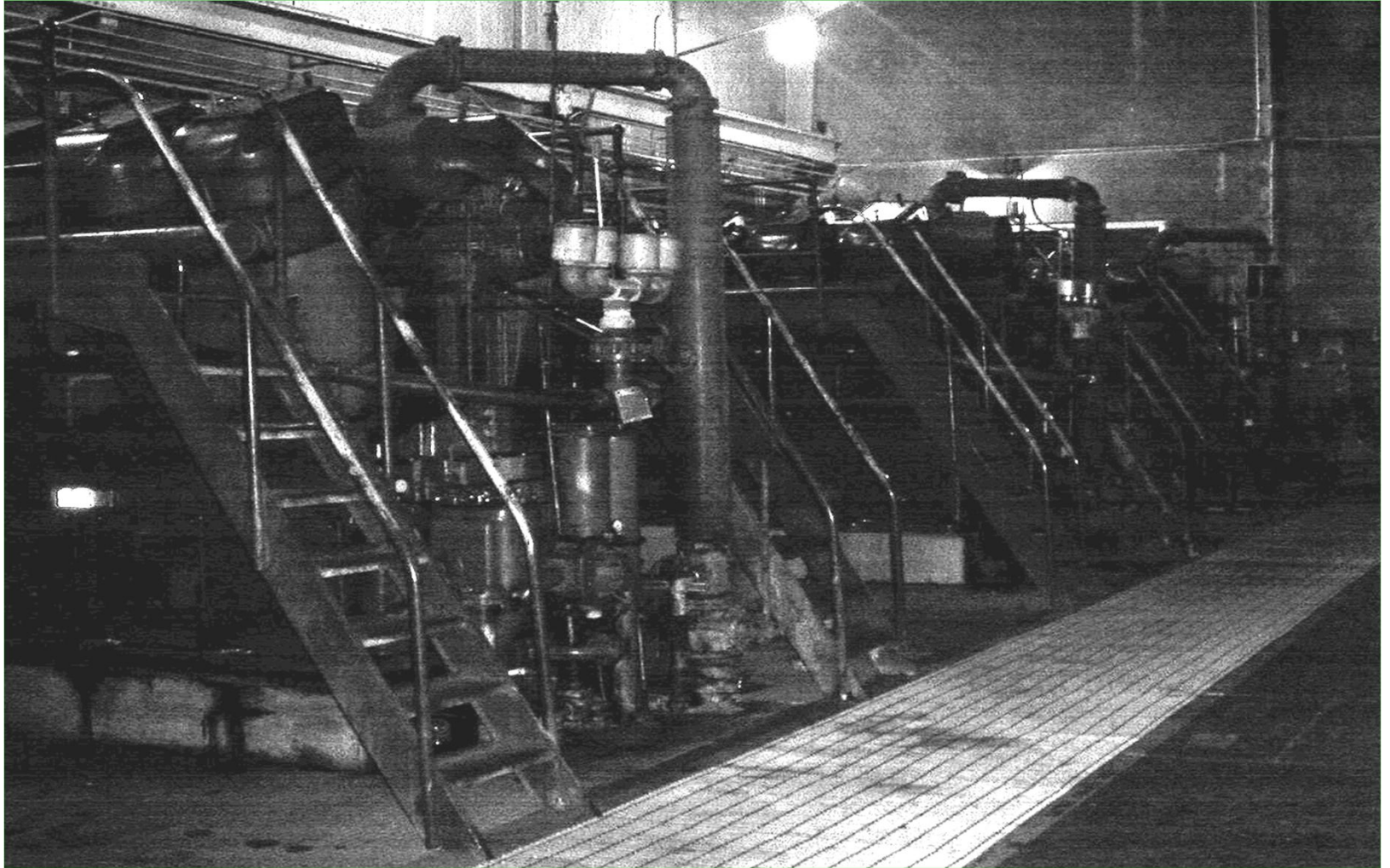
# Digester Gas Production







# **JWPCP - Using Digester Gas for Energy since 1938**





# Productive Use of Gas

**Generation of electricity for  
on-site use or sale (20 MW)**



**Vehicle fuel**



**Biomethane**



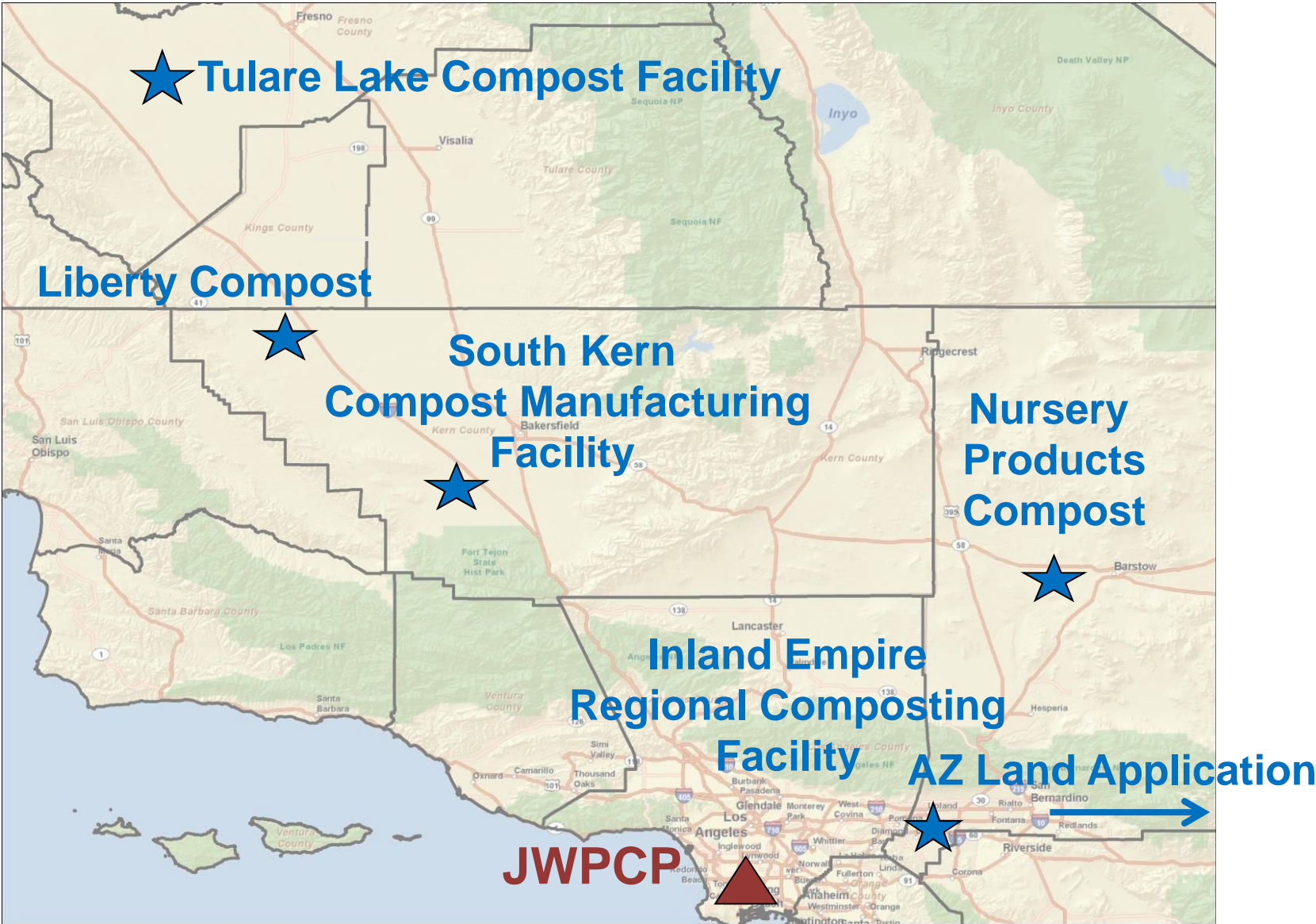
**Biosolids  
drying**







# Productive Use of AD Solids







# Tulare Lake Compost







# Projected Capacity for Food Waste

- Joint Water Pollution Control Plant (JWPCP)
  - 500 tons per day
- Puente Hills Materials Recovery Facility (MRF)
  - 165 tons per day



SANITATION DISTRICTS OF LOS ANGELES COUNTY



# Thank You!

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